

## 3156G

Engine		3156G Processor / Valve-in-Head (VIH) Log Loader / Live-Heel Log Loader		
	Base engine for use in U.S. and U.S. Territories	Optional engine for use in Canada, Australia, and New Zealand		
Manufacturer and Model	John Deere PowerTech™ PSS 9.0 L	John Deere PowerTech™ Plus 9.0 L		
Non-Road Emission Standards	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA		
Net Rated Power (ISO 9249)	186 kW (249 hp) at 1,900 rpm	186 kW (249 hp) at 1,900 rpm		
Cylinders	6	6		
Engine Displacement	9.0 L (549 cu. in.)	9.0 L (549 cu. in.)		
Off-Level Capacity	70% (35 deg.)	70% (35 deg.)		
Aspiration	Series turbocharged, air-to-air charge-air cooler	Turbocharged, air-to-air charge-air cooler		
Oil Filter, Remote Mounted	Full-flow spin-on filter	Full-flow spin-on filter		
Cooling				
Fan Drive	Cool-on-demand hydraulic-driven, suction-type fan remote-mounted drive w/ optional reversing fan			
Powertrain				
2-speed propel with automatic shift				
Maximum Travel Speed				
Low	2.7 km/h (1.7 mph)			
High	4.2 km/h (2.6 mph)			
Drawbar Pull	30 350 kgf (66,910 lbf)			
Hydraulics				
Open center, pilot operated				
<b>Main Pumps</b>	2 variable-displacement pumps			
Maximum Rated Flow x 2	236 L/m (62.3 gpm)			
<b>System Operating Pressure</b>				
Implement Circuits	34 300 kPa (4,975 psi)			
Power Boost	38 000 kPa (5,511 psi)			
Controls	Pilot levers; short-stroke, low-effort hydraulic pilot with shutoff lever			
Electrical				
	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA		
System Voltage	24 volt	24 volt		
Alternator Rating	150 amp	130 amp		
Lights				
Work	5 halogen: 3 cab front and 2 right-hand front log deflector standard / 14 LEDs optional			
Access (optional)	1 LED (rear right cab)		1 LED (rear right cab)	
Service	5 LEDs (compartment and engine hood)		5 LEDs (compartment and engine hood)	
Undercarriage				
Rollers (per side)				
Carrier	2			
Track	9			
Shoes, Double Grousers (per side)	48			
Undercarriage Pitch	216 mm (8.5 in.)			
Ground Pressure		3156G Processor	3156G VIH Log Loader	3156G Live-Heel Log Loader
Undercarriage		2.92-m (9 ft. 7 in.)	2.92-m (9 ft. 7 in.)	2.92-m (9 ft. 7 in.)
700-mm (28 in.) Double-Grouser Shoes		74.9 kPa (10.9 psi)	72.4 kPa (10.5 psi)	72.2 kPa (10.5 psi)
Swing Mechanism				
3156G Processor / VIH Log Loader / Live-Heel Log Loader				
Swing Speed	8.7 rpm			
Swing Torque	120 000 Nm (88,507 lb.-ft.)			



**Operator's Station 3156G Processor / VIH Log Loader / Live-Heel Log Loader**

Operator Height from Ground (eye level)	
Side-Entry Forestry Cab	3125 mm (10 ft. 3 in.)
Rear-Entry Log Loader Cab	4471 mm (14 ft. 8 in.)

**Serviceability**

<b>Refill Capacities</b>	
Fuel Tank	1080.0 L (285.0 gal.)
Cooling System	39.7 L (10.5 gal.)
Diesel Exhaust Fluid (DEF) Tank (FT4)	43.6 L (11.5 gal.)
Engine Crankcase (including filter)	27.0 L (28.5 qt.)
Hydraulic Tank Oil	195.0 L (52.0 gal.)

**Operating Weights 3156G Processor 3156G VIH Log Loader 3156G Live-Heel Log Loader**

With full fuel tank, 79-kg (175 lb.) operator, rear-entry forestry cab, 6558-kg (14,454 lb.) counterweight, 700-mm (28 in.) double-grouser shoes, FT4 engine, and 2.92-m (9 ft. 7 in.) undercarriage; no attachment included

	EPA Final Tier 4/ EU Stage IV	EPA Tier 3/ EU Stage IIIA	EPA Final Tier 4/ EU Stage IV	EPA Tier 3/ EU Stage IIIA	EPA Final Tier 4/ EU Stage IV	EPA Tier 3/ EU Stage IIIA
SAE Operating Weight	42 579 kg (93,870 lb.)	42 352 kg (93,370 lb.)	42 352 kg (93,371 lb.)	42 126 kg (92,871 lb.)	43 429 kg (95,745 lb.)	43 202 kg (95,245 lb.)

**Optional Components (add weight)**

Side-Entry Cab	-671 kg (-1,480 lb.)	-671 kg (-1,480 lb.)	-671 kg (-1,480 lb.)	-671 kg (-1,480 lb.)	-671 kg (-1,480 lb.)	-671 kg (-1,480 lb.)
Rear-Entry Cab – Cab Forward	68 kg (150 lb.)	68 kg (150 lb.)	68 kg (150 lb.)	68 kg (150 lb.)	68 kg (150 lb.)	68 kg (150 lb.)

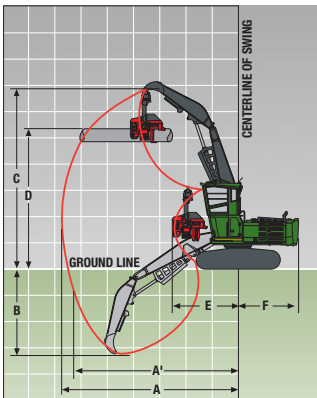
**Operating Dimensions**

With 700-mm (28 in.) shoes; 6558-kg (14,454 lb.) counterweight; full fuel tank; 79-kg (175 lb.) operator, and standard equipment

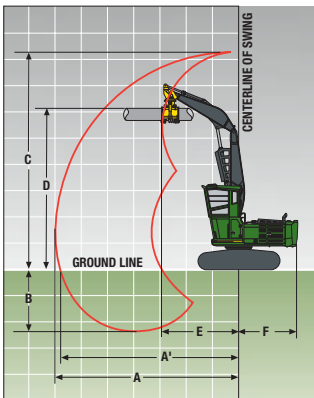
	4.56-m (14 ft. 11 in.) Processor Arm	4.56-m (14 ft. 11 in.) VIH Log Loader Arm	4.56-m (14 ft. 11 in.) Live-Heel Log Loader Arm
<b>A</b> Maximum Reach	11.07 m (36 ft. 4 in.)	11.13 m (36 ft. 6 in.)	12.55 m (41 ft. 2 in.)
<b>A'</b> Maximum Reach at Ground Level	10.82 m (35 ft. 6 in.)	10.90 m (35 ft. 9 in.)	12.34 m (40 ft. 6 in.)
<b>B</b> Maximum Working Depth	3.05 m (10 ft. 0 in.)	3.02 m (9 ft. 11 in.)	4.45 m (14 ft. 7 in.)
<b>C</b> Maximum Working Height	13.00 m (42 ft. 8 in.)	13.13 m (43 ft. 1 in.)	14.53 m (47 ft. 8 in.)
<b>D</b> Maximum Log-Level Height	10.06 m (33 ft. 0 in.)	8.97 m (29 ft. 5 in.)*	9.25 m (30 ft. 4 in.)
<b>E</b> Minimum Swing Radius	4.57 m (15 ft. 0 in.)	5.03 m (16 ft. 6 in.)	4.57 m (15 ft. 0 in.)
<b>F</b> Tail Swing Radius	3.71 m (12 ft. 2 in.)	3.71 m (12 ft. 2 in.)	3.71 m (12 ft. 2 in.)

\*Attachment dependent.

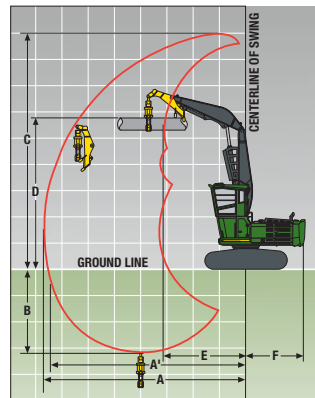
**3156G Processor**



**3156G VIH**



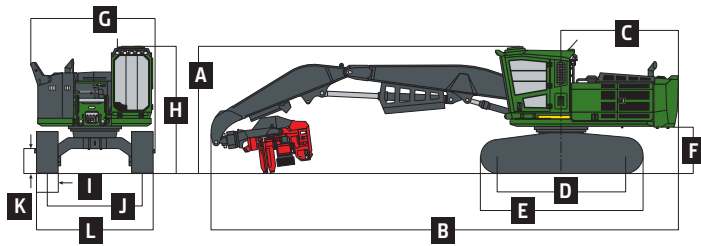
**3156G Live Heel**



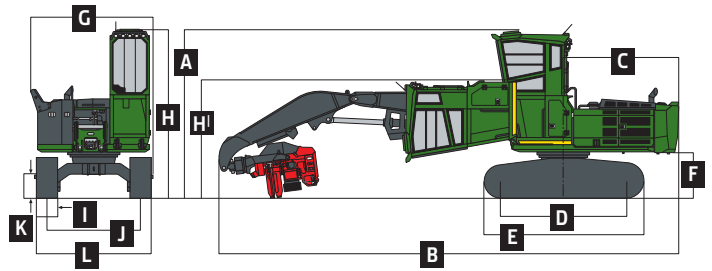
# 3156G

Machine Dimensions	3156G Processor	3156G VIH Log Loader	3156G Live-Heel Log Loader
A Height (rear-entry cab)	3.71 m (12 ft. 2 in.)	3.71 m (12 ft. 2 in.)	3.71 m (12 ft. 2 in.)
B Overall Length	14.81 m (48 ft. 7 in.)	15.39 m (50 ft. 6 in.)	15.52 m (50 ft. 11 in.)
C Rear-End Length / Swing Radius	3.63 m (11 ft. 11 in.)	3.63 m (11 ft. 11 in.)	3.63 m (11 ft. 11 in.)
D Distance Between Idler / Sprocket Centerline	4.06 m (13 ft. 4 in.)	4.06 m (13 ft. 4 in.)	4.06 m (13 ft. 4 in.)
E Undercarriage Length	5.00 m (16 ft. 5 in.)	5.00 m (16 ft. 5 in.)	5.00 m (16 ft. 5 in.)
F Counterweight Clearance	1.50 m (4 ft. 11 in.)	1.50 m (4 ft. 11 in.)	1.50 m (4 ft. 11 in.)
G Upperstructure Width	3.48 m (11 ft. 5 in.)	3.48 m (11 ft. 5 in.)	3.48 m (11 ft. 5 in.)
H Cab Height (rear-entry cab)	5.21 m (17 ft. 1 in.)	5.21 m (17 ft. 1 in.)	5.21 m (17 ft. 1 in.)
H <sup>I</sup> Tilted Cab Height (rear-entry cab)	3.71 m (12 ft. 2 in.)	3.71 m (12 ft. 2 in.)	3.71 m (12 ft. 2 in.)
I Track Width with 700-mm (28 in.) Double-Grouser Shoes	0.71 m (28 in.)	0.71 m (28 in.)	0.71 m (28 in.)
J Center of Sprocket to Center of Sprocket	2.92 m (9 ft. 7 in.)	2.92 m (9 ft. 7 in.)	2.92 m (9 ft. 7 in.)
K Ground Clearance	0.79 m (31 in.)	0.79 m (31 in.)	0.79 m (31 in.)
L Undercarriage Width with 700-mm (28 in.) Double-Grouser Shoes	3.63 m (11 ft. 11 in.)	3.63 m (11 ft. 11 in.)	3.63 m (11 ft. 11 in.)

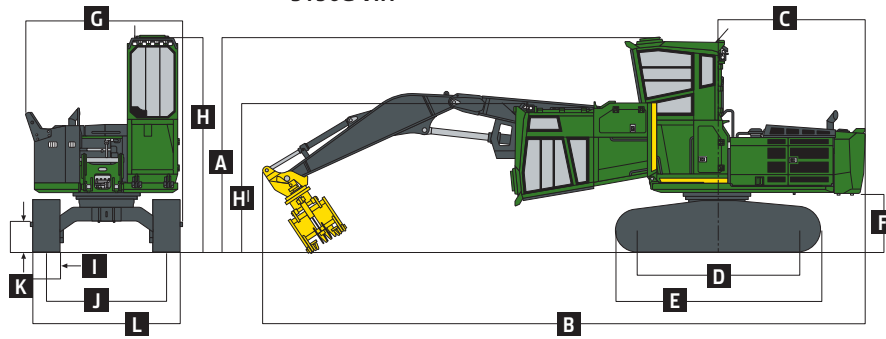
3156G Processor – Low Cab



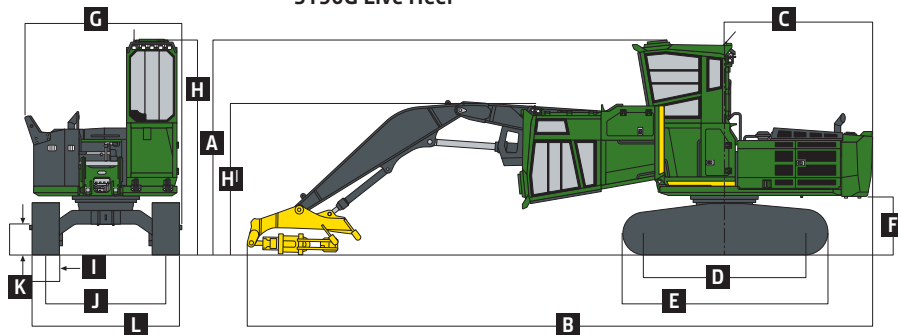
3156G Processor – High Cab



3156G VIH



3156G Live Heel



Attachment weight is not included when calculating the lift capacities. Boldface type indicates hydraulic-limited capacities with power boost; lightface type indicates stability-limited capacities, in kg (lb.). Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

3156G

**Lift Capacity — 3156G Processor with 2.92-m (9 ft. 7 in.) undercarriage and 700-mm (28 in.) shoes; bare pin**

Load Point Height	4.6 m (15 ft.)		6.1 m (20 ft.)		7.6 m (25 ft.)		9.1 m (30 ft.)		10.7 m (35 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
12.2 m (40 ft.)	<b>12 950</b> (28,550)	<b>12 950</b> (28,550)								
10.7 m (35 ft.)	<b>13 730</b> (30,260)	<b>13 730</b> (30,260)	<b>11 780</b> (25,970)	<b>11 780</b> (25,970)						
9.1 m (30 ft.)			<b>11 180</b> (24,640)	<b>11 180</b> (24,640)	<b>9960</b> (21,950)	9640 (21,240)				
7.6 m (25 ft.)			<b>11 210</b> (24,710)	<b>11 210</b> (24,710)	<b>9840</b> (21,700)	9670 (21,310)	<b>8750</b> (19,280)	7140 (15,730)		
6.1 m (20 ft.)	<b>14 140</b> (31,170)	<b>14 140</b> (31,170)	<b>11 720</b> (25,830)	<b>11 720</b> (25,830)	<b>10 040</b> (22,140)	9530 (21,000)	<b>8740</b> (19,260)	7110 (15,680)		
4.6 m (15 ft.)	<b>16 000</b> (35,260)	<b>16 000</b> (35,260)	<b>12 570</b> (27,710)	<b>12 570</b> (27,710)	<b>10 410</b> (22,940)	9270 (20,440)	<b>8820</b> (19,450)	6990 (15,410)	7280 (16,040)	5450 (12,020)
3.1 m (10 ft.)	<b>18 050</b> (39,770)	<b>18 050</b> (39,770)	<b>13 440</b> (29,620)	12 500 (27,550)	<b>10 740</b> (23,680)	8960 (19,740)	<b>8850</b> (19,510)	6830 (15,040)	<b>7110</b> (15,680)	5400 (11,900)
1.5 m (5 ft.)	<b>18 980</b> (41,830)	18 360 (40,460)	<b>13 840</b> (30,500)	11 930 (26,290)	<b>10 800</b> (23,810)	8650 (19,070)	<b>8660</b> (19,090)	6660 (14,680)	<b>6630</b> (14,600)	5330 (11,750)
Ground Line	<b>17 980</b> (39,630)	17 680 (38,970)	<b>13 350</b> (29,430)	11 530 (25,410)	<b>10 330</b> (22,770)	8420 (18,560)	<b>8050</b> (17,740)	6540 (14,410)	<b>5520</b> (12,180)	5300 (11,680)
-1.5 m (-5 ft.)	<b>15 240</b> (33,600)	<b>15 240</b> (33,600)	<b>11 770</b> (25,950)	11 340 (24,980)	<b>9090</b> (20,030)	8300 (18,290)	<b>6740</b> (14,850)	6490 (14,300)		
-3.1 m (-10 ft.)			<b>8980</b> (19,800)	<b>8980</b> (19,800)						

**Lift Capacity — 3156G VIH Log Loader with 2.92-m (9 ft. 7 in.) undercarriage and 700-mm (28 in.) shoes; bare pin**

Load Point Height	4.6 m (15 ft.)		6.1 m (20 ft.)		7.6 m (25 ft.)		9.1 m (30 ft.)		10.7 m (35 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
12.2 m (40 ft.)	<b>14 950</b> (32,960)	<b>14 950</b> (32,960)								
10.7 m (35 ft.)	<b>13 920</b> (30,680)	<b>13 920</b> (30,680)	<b>11 990</b> (26,430)	<b>11 990</b> (26,430)						
9.1 m (30 ft.)			<b>11 390</b> (25,110)	<b>11 390</b> (25,110)	<b>10 170</b> (22,420)	9780 (21,550)				
7.6 m (25 ft.)			<b>11 440</b> (25,210)	<b>11 440</b> (25,210)	<b>10 070</b> (22,190)	9820 (21,650)	<b>8970</b> (19,760)	7290 (16,080)		
6.1 m (20 ft.)	<b>14 420</b> (31,770)	<b>14 420</b> (31,770)	<b>11 980</b> (26,400)	<b>11 980</b> (26,400)	<b>10 280</b> (22,670)	9700 (21,390)	<b>8970</b> (19,770)	7290 (16,060)		
4.6 m (15 ft.)	<b>16 320</b> (35,970)	<b>16 320</b> (35,970)	<b>12 850</b> (28,320)	<b>12 850</b> (28,320)	<b>10 660</b> (23,500)	9470 (20,870)	<b>9060</b> (19,970)	7180 (15,820)	7450 (16,430)	5630 (12,410)
3.1 m (10 ft.)			<b>13 740</b> (30,280)	12 730 (28,070)	<b>11 010</b> (24,270)	9170 (20,220)	<b>9100</b> (20,050)	7030 (15,490)	<b>7330</b> (16,140)	5590 (12,310)
1.5 m (5 ft.)			<b>14 150</b> (31,180)	12 190 (26,870)	<b>11 080</b> (24,410)	8890 (19,590)	<b>8910</b> (19,640)	6880 (15,160)	<b>6830</b> (15,060)	5530 (12,190)
Ground Line	<b>18 310</b> (40,360)	18 030 (39,740)	<b>13 660</b> (30,100)	11 810 (26,030)	<b>10 600</b> (23,370)	8670 (19,100)	<b>8290</b> (18,270)	6760 (14,900)	<b>5700</b> (12,560)	5500 (12,130)
-1.5 m (-5 ft.)	<b>15 540</b> (34,260)	<b>15 540</b> (34,260)	<b>12 060</b> (26,580)	11 630 (25,630)	<b>9350</b> (20,600)	8550 (18,850)	<b>6960</b> (15,350)	6710 (14,800)		

**Lift Capacity — 3156G Live-Heel Log Loader with 2.92-m (9 ft. 7 in.) undercarriage and 700-mm (28 in.) shoes; bare pin**

Load Point Height	4.6 m (15 ft.)		6.1 m (20 ft.)		7.6 m (25 ft.)		9.1 m (30 ft.)		10.7 m (35 ft.)		12.2 m (40 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
12.2 m (40 ft.)	<b>13 500</b> (29,750)	<b>13 500</b> (29,750)	<b>11 560</b> (25,470)	<b>11 560</b> (25,470)								
10.7 m (35 ft.)			<b>10 330</b> (22,770)	<b>10 330</b> (22,770)	<b>9260</b> (20,410)	8810 (19,420)	<b>7020</b> (15,480)	6770 (14,930)				
9.1 m (30 ft.)			<b>9990</b> (22,010)	<b>9990</b> (22,010)	<b>8870</b> (19,540)	<b>8870</b> (19,540)	<b>7950</b> (17,530)	6500 (14,320)				
7.6 m (25 ft.)			<b>10 130</b> (22,320)	<b>10 130</b> (22,320)	<b>8910</b> (19,630)	<b>8910</b> (19,630)	<b>7880</b> (17,370)	6750 (14,880)	<b>6930</b> (15,280)	5370 (11,830)		
6.1 m (20 ft.)			<b>10 830</b> (23,870)	<b>10 830</b> (23,870)	<b>9260</b> (20,400)	<b>9260</b> (20,400)	<b>8010</b> (17,660)	6760 (14,900)	<b>6920</b> (15,250)	5370 (11,830)		
4.6 m (15 ft.)			<b>11 010</b> (24,260)	<b>11 010</b> (24,260)	<b>9750</b> (21,490)	9090 (20,040)	<b>8220</b> (18,110)	6680 (14,730)	<b>6960</b> (15,330)	5290 (11,660)	5630 (12,410)	4110 (9,060)
3.1 m (10 ft.)			<b>12 110</b> (26,680)	<b>12 110</b> (26,680)	<b>10 230</b> (22,540)	8820 (19,430)	<b>8380</b> (18,470)	6560 (14,460)	<b>6980</b> (15,380)	5190 (11,440)	<b>5520</b> (12,160)	4090 (9,010)
1.5 m (5 ft.)			<b>13 280</b> (29,260)	12 160 (26,790)	<b>10 470</b> (23,080)	8500 (18,730)	<b>8420</b> (18,560)	6490 (14,300)	<b>6860</b> (15,120)	5070 (11,180)	<b>5110</b> (11,270)	4050 (8,920)
Ground Line	<b>12 660</b> (27,900)	<b>12 660</b> (27,900)	<b>13 460</b> (29,660)	11 570 (25,510)	<b>10 360</b> (22,840)	8310 (18,310)	<b>8230</b> (18,130)	6310 (13,900)	<b>6470</b> (14,260)	4960 (10,930)	<b>4170</b> (9,200)	4020 (8,870)
-1.5 m (-5 ft.)	<b>10 190</b> (22,450)	<b>10 190</b> (22,450)	<b>12 740</b> (28,070)	11 140 (24,560)	<b>9760</b> (21,520)	8030 (17,700)	<b>7580</b> (16,700)	6160 (13,570)	<b>5600</b> (12,340)	4890 (10,780)		
-3.1 m (-10 ft.)	<b>11 230</b> (24,760)	<b>11 230</b> (24,760)	<b>10 980</b> (24,200)	10 920 (24,060)	<b>8390</b> (18,490)	7900 (17,410)	<b>6230</b> (13,730)	6090 (13,420)				